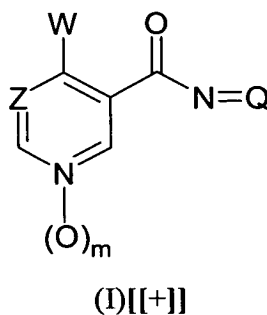


Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently amended) A compound of the formula (I):



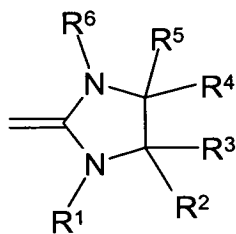
or a pesticidally acceptable salt thereof,

wherein:

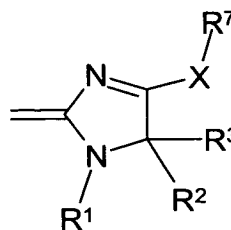
W is (C₁-C₄)haloalkyl;

Z is CH or N;

=Q is a group of formula (A) or (B):



(A)



(B)

R¹ and R⁶ are each independently H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, (C₁-C₆)alkoxy, (C₃-C₆)alkenyloxy, (C₃-C₆)alkynyloxy, (C₁-C₆)alkylamino, di-(C₁-C₆)alkylamino, NHCO(C₁-C₆)alkyl, NHSO₂(C₁-C₆)alkyl, CO(C₁-C₆)alkyl or

$\text{SO}_2(\text{C}_1\text{-C}_6)\text{alkyl}$, wherein any available carbon on R^1 and R^6 can be ~~which last twelve mentioned groups are~~ unsubstituted or substituted by one or more R^8 groups; or

R^1 and R^6 are $(\text{C}_3\text{-C}_8)\text{cycloalkyl}$ or $(\text{C}_3\text{-C}_8)\text{cycloalkyl-(C}_1\text{-C}_6)\text{alkyl-}$ which cycloalkyl radicals are unsubstituted or substituted by one or more $(\text{C}_1\text{-C}_6)\text{alkyl}$, $(\text{C}_1\text{-C}_6)\text{haloalkyl}$ or R^8 groups; or

R^1 and R^6 are $-(\text{CR}^9\text{R}^{10})_p\text{R}^{11}$, $-(\text{CR}^9\text{R}^{10})_p\text{heterocyclyl}$, OH , SO_2R^{11} , NH_2 , NHCOR^{11} , $\text{NH}(\text{C}_3\text{-C}_8)\text{cycloalkyl}$, $\text{NH}(\text{CR}^9\text{R}^{10})_s\text{R}^{11}$, $\text{O}(\text{CR}^9\text{R}^{10})_r\text{R}^{11}$, $-(\text{CR}^9\text{R}^{10})\text{CO}_2\text{CH}_2\text{R}^{11}$, $\text{O}(\text{CH}_2)_r\text{heterocyclyl}$, $\text{N}=\text{C}[(\text{C}_1\text{-C}_6)\text{alkyl}]_2$, COR^{11a} or CO-heterocyclyl ; or

R^1 and R^6 are $(\text{C}_3\text{-C}_6)\text{alkenyl}$ substituted by R^{11a} ;

R^2 , R^3 , R^4 and R^5 are each independently H , $(\text{C}_1\text{-C}_8)\text{alkyl}$, $(\text{C}_2\text{-C}_6)\text{alkenyl}$ or $(\text{C}_2\text{-C}_6)\text{alkynyl}$, wherein any available carbon on R^2 , R^3 , R^4 or R^5 can be ~~which last three mentioned groups are~~ unsubstituted or substituted by one or more R^8 groups; or

R^2 , R^3 , R^4 and R^5 are $(\text{C}_3\text{-C}_8)\text{cycloalkyl}$ or $(\text{C}_3\text{-C}_8)\text{cycloalkyl-(C}_1\text{-C}_6)\text{alkyl-}$ which cycloalkyl radicals are unsubstituted or substituted by one or more $(\text{C}_1\text{-C}_6)\text{alkyl}$, $(\text{C}_1\text{-C}_6)\text{haloalkyl}$ or R^8 groups; or

R^2 , R^3 , R^4 and R^5 are $(\text{C}_1\text{-C}_6)\text{alkyl-SH}$, $-(\text{CR}^9\text{R}^{10})_p\text{R}^{11}$, $-(\text{CR}^9\text{R}^{10})_p\text{heterocyclyl}$ or $\text{O}(\text{CH}_2)_r\text{R}^{11}$;

or R^2 and R^3 , or R^4 and R^5 together with the respective attached carbon atom form a carbonyl or thiocarbonyl group or a $(\text{C}_3\text{-C}_8)\text{cycloalkyl}$ ring; or an imino group which is unsubstituted or substituted by $(\text{C}_1\text{-C}_6)\text{alkyl}$, $\text{CO}(\text{C}_1\text{-C}_6)\text{alkyl}$ or R^{11a} ;

R^7 is $(\text{C}_3\text{-C}_6)\text{alkenyl}$, $(\text{C}_3\text{-C}_6)\text{alkynyl}$, $-(\text{CR}^9\text{R}^{10})_p\text{R}^{11}$, $-(\text{CR}^9\text{R}^{10})_p\text{heterocyclyl}$, $\text{CO}(\text{C}_1\text{-C}_6)\text{alkyl}$ or a $(\text{C}_3\text{-C}_8)\text{cycloalkyl}$ ring; or $(\text{C}_1\text{-C}_8)\text{alkyl}$ unsubstituted or substituted by one or more radicals selected from halogen and $-\text{OC}(=\text{O})-(\text{C}_1\text{-C}_4)\text{alkyl}$;

R^8 is halogen, (C_1-C_6) alkoxy, (C_1-C_6) haloalkoxy, $S(O)_nR^{12}$, CN, $CO_2(C_1-C_6)$ alkyl, CO_2H , NO_2 , OH, amino, (C_1-C_6) alkylamino, di- (C_1-C_6) alkylamino, carbamoyl, (C_1-C_6) -alkylcarbamoyl, di- (C_1-C_6) -alkylcarbamoyl, $CH[O(C_1-C_6)alkyl]_2$, (C_3-C_6) alkenyloxy, (C_3-C_6) alkynyloxy or $O(CH_2)_rR^{11}$;

R^9 and R^{10} are each independently H, (C_1-C_6) alkyl or (C_1-C_6) haloalkyl;

R^{11} is aryl unsubstituted or substituted by one or more radicals selected from the group consisting of (C_1-C_6) alkyl, (C_1-C_6) haloalkyl, (C_2-C_6) alkenyl, (C_2-C_6) alkynyl, (C_3-C_8) cycloalkyl, $-(CH_2)_uR^{11a}$, heterocyclyl, halogen, (C_1-C_6) alkoxy, (C_1-C_6) haloalkoxy, $S(O)_nR^{12}$, CN, $CO_2(C_1-C_6)$ alkyl, NO_2 , amino, (C_1-C_6) alkylamino, di- (C_1-C_6) alkylamino and $CO(C_1-C_6)alkyl$;

R^{11a} is aryl unsubstituted or substituted by one or more radicals selected from the group consisting of (C_1-C_6) alkyl, (C_1-C_6) haloalkyl, halogen, (C_1-C_6) alkoxy, (C_1-C_6) haloalkoxy, $S(O)_nR^{12}$, CN, $CO_2(C_1-C_6)$ alkyl, CO_2H , NO_2 , OH, amino, (C_1-C_6) alkylamino and di- (C_1-C_6) alkylamino;

R^{12} is (C_1-C_6) alkyl or (C_1-C_6) haloalkyl;

X is O, S, NR^{13} or NOR^{13} ;

R^{13} is H, (C_1-C_8) alkyl, (C_3-C_6) alkenyl, (C_3-C_6) alkynyl or (C_3-C_8) cycloalkyl wherein any available carbon on R^{13} can be ~~which last four mentioned groups are~~ unsubstituted or substituted by one or more R^8 groups; or

R^{13} is (C_3-C_8) cycloalkyl- (C_1-C_6) alkyl- which cycloalkyl is unsubstituted or substituted by one or more (C_1-C_6) alkyl, (C_1-C_6) haloalkyl or R^8 groups; or

R^{13} is $-(CR^9R^{10})_pR^{11}$ or $-(CR^9R^{10})_p$ heterocyclyl;

m, s and u are each independently 0 or 1;

n is 0, 1 or 2;

p is 0, 1, 2 or 3;

r is 0 or an integer from 1 to 6; and each heterocyclyl in the above mentioned radicals is independently a heterocyclic radical having 3 to 7 ring atoms and 1 to 4 hetero atoms selected from the group consisting of N, O and S, and is unsubstituted or substituted by one or more radicals selected from the group consisting of (C₁-C₆)alkyl, (C₁-C₆)haloalkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl, -(CH₂)_uR^{11a}, halogen, (C₁-C₆)alkoxy, (C₁-C₆)haloalkoxy, S(O)_nR¹², CN, CO₂(C₁-C₆)alkyl, NO₂, OH, amino, (C₁-C₆)alkylamino and ~~di-(C₁-C₆)alkylamino~~; di-(C₁-C₆)alkylamino.
~~or a pesticidally acceptable salt thereof.~~

2. (Original) A compound or a salt thereof as claimed in claim 1, wherein W is CF₃.

3. (Original) A compound or a salt thereof as claimed in claim 1 or 2, wherein Z is CH.

4. (Currently amended) A compound or a salt thereof as claimed in claim 1, ~~2 or 3~~, wherein R¹ and R⁶ are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, ~~CO(C₁-C₆)alkyl or SO₂(C₁-C₆)alkyl~~; ~~or are~~ ~~-(CR⁹R¹⁰)_pR¹¹~~
CO(C₁-C₆)alkyl, SO₂(C₁-C₆)alkyl, and -(CR⁹R¹⁰)_pR¹¹.

5. (Currently amended) A compound or a salt thereof as claimed in ~~any one of~~ claims 1 to 4 claim 1, wherein R^2 , R^3 , R^4 and R^5 are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, $-(CR^9R^{10})_pR^{11}$, $-(CR^9R^{10})_p$ heterocyclyl ~~or~~ $O(CH_2)_rR^{11}$ and $O(CH_2)_rR^{11}$; or R^2 and R^3 together with the attached carbon atom form a carbonyl or thiocarbonyl group, or an imino group which is unsubstituted or substituted by (C₁-C₆)alkyl, CO(C₁-C₆)alkyl or R^{11a} ; or R^2 and R^3 , or R^4 and R^5 together with the respective attached carbon atom form a (C₃-C₈)cycloalkyl ring.

6. (Currently amended) A compound or a salt thereof as claimed in ~~any one of~~ claims 1 to 5 claim 1 wherein:

W is CF₃;

Z is CH;

R^1 and R^6 are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, ~~CO(C₁-C₆)alkyl or SO₂(C₁-C₆)alkyl; or are~~ CO(C₁-C₆)alkyl, SO₂(C₁-C₆)alkyl and $-(CR^9R^{10})_pR^{11}$;

R^2 , R^3 , R^4 and R^5 are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, $-(CR^9R^{10})_pR^{11}$, $-(CR^9R^{10})_p$ heterocyclyl [[or]] and $O(CH_2)_rR^{11}$; or R^2 and R^3 together with the attached carbon atom form a carbonyl or thiocarbonyl group, or an imino group which is unsubstituted or substituted by (C₁-C₆)alkyl, CO(C₁-C₆)alkyl or R^{11a} ; or R^2 and R^3 , or R^4 and R^5 together with the respective attached carbon atom form a (C₃-C₈)cycloalkyl ring;

R^7 is (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, $-(CR^9R^{10})_pR^{11}$ or $-(CR^9R^{10})_p$ heterocyclyl;

R⁸ is (C₁-C₄)alkoxy or OH;

R⁹ and R¹⁰ are each independently selected from the group consisting of H, (C₁-C₄)alkyl
[[or]] and (C₁-C₄)haloalkyl;

R¹¹ is phenyl unsubstituted or substituted by one or more radicals selected from the group
consisting of (C₁-C₄)alkyl, (C₁-C₄)haloalkyl, (C₂-C₄)alkenyl, (C₂-C₄)alkynyl,
(C₃-C₆)cycloalkyl, -(CH₂)_uR^{11a}, heterocyclyl, halogen, (C₁-C₄)alkoxy,
(C₁-C₄)haloalkoxy, S(O)_nR¹², CN, CO₂(C₁-C₄)alkyl, NO₂, amino, (C₁-C₄)alkylamino and
di-(C₁-C₄)alkylamino; ~~(more preferably R¹¹ is phenyl unsubstituted or substituted by one
or more radicals selected from the group consisting of (C₁-C₄)alkyl, halogen,
(C₁-C₄)alkoxy, NO₂ and amino);~~

R^{11a} is phenyl unsubstituted or substituted by one or more radicals selected from the
group consisting of (C₁-C₄)alkyl, (C₁-C₄)haloalkyl, halogen, (C₁-C₄)alkoxy,
(C₁-C₄)haloalkoxy, S(O)_nR¹², CN, CO₂(C₁-C₄)alkyl, CO₂H, NO₂, OH, amino,
(C₁-C₄)alkylamino and di-(C₁-C₄)alkylamino;

R¹² is (C₁-C₄)alkyl or (C₁-C₄)haloalkyl;

X is O or S;

m is 0; and

p, r, s and u are each independently 0 or 1; [[and]]

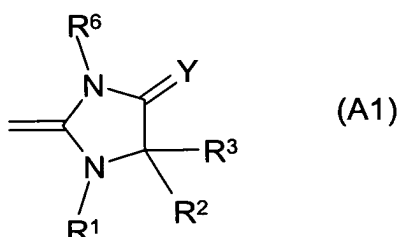
wherein each heterocyclyl in the above mentioned radicals is independently a
heterocyclic radical having 3 to 7 ring atoms and 1 to 4 hetero atoms selected from N, O
and S.

7. (Currently amended) A compound or a salt thereof as claimed in ~~any one of claims 1 to 6~~ claim 1 wherein:

W is CF₃;

Z is CH;

=Q is a group of formula (A1):



R¹ and R⁶ are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, ~~CO(C₁-C₆)alkyl or SO₂(C₁-C₆)alkyl; or are~~ CO(C₁-C₆)alkyl, SO₂(C₁-C₆)alkyl and -(CR⁹R¹⁰)_pR¹¹;

R² and R³ are each independently selected from the group consisting of H, (C₁-C₈)alkyl, (C₃-C₆)alkenyl, (C₃-C₆)alkynyl, -(CR⁹R¹⁰)_pR¹¹, -(CR⁹R¹⁰)_pheterocyclyl [[or]] and O(CH₂)_rR¹¹; and

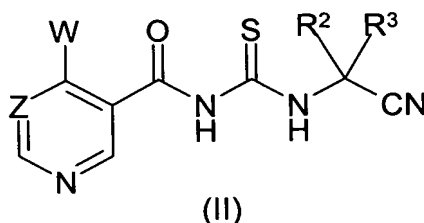
Y is O or S; [[and]]

wherein said heterocyclyl is a heterocyclic radical having 3 to 7 ring atoms and 1 to 4 hetero atoms selected from N, O and S.

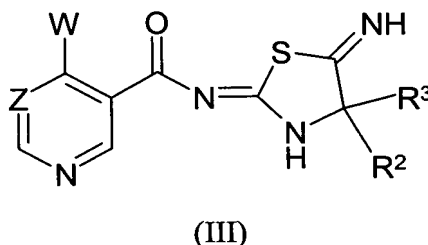
8. (Currently amended) A process for the preparation of a compound of formula (I) or a salt thereof as defined in ~~any one of claims 1 to 7~~ claim 1, which process comprises:

a) ~~where =Q is a formula (A), R² and R³ are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imine group, R⁴ and R⁵ together with the attached carbon atom form a thiocarbonyl group, R¹~~

and R^6 are each a hydrogen atom and m is zero, the cyclisation-rearrangement reaction of a compound of formula (II):

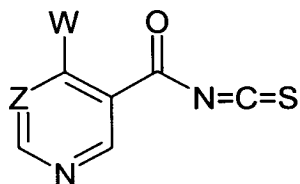


wherein W and Z are as defined in claim 1, R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, by heating and/or reaction in the presence of a base, via an intermediate of formula (III):



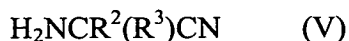
wherein W , Z , R^2 and R^3 are as defined in claim 1, which rearranges to the compound of formula (I), where $=Q$ is a formula (A), R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, R^4 and R^5 together with the attached carbon atom form a thiocarbonyl group, R^1 and R^6 are each a hydrogen atom and m is zero; or

b) ~~where W and Z are as defined in claim 1, $=Q$ is a formula (A), R^2 and R^3 are as defined in claim 1 excluding where they form a carbonyl, thiocarbonyl or imino group, R^4 and R^5 together with the attached carbon atom form a thiocarbonyl group, R^1 and R^6 are each a hydrogen atom and m is zero, reacting a compound of formula (IV):~~



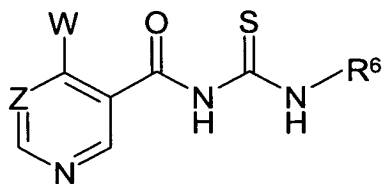
(IV)

wherein W and Z are as defined in claim 1, with a compound of formula (V):



wherein R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, to give the corresponding compound of formula (II), followed by cyclisation and rearrangement as described in process a) above to give a compound of formula (I) where W and Z are as defined in claim 1, =Q is a formula (A), R^2 and R^3 are as defined in claim 1 excluding where they form a carbonyl, thiocarbonyl or imino group, R^4 and R^5 together with the attached carbon atom form a thiocarbonyl group, R^1 and R^6 are each a hydrogen atom and m is zero; or

c) _____ where =Q is a formula (A), R^1 is a hydrogen atom, R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, R^4 and R^5 together with the attached carbon atom form a carbonyl group, W, Z and R^6 are as defined in claim 1 and m is zero, reacting a compound of formula (VI):

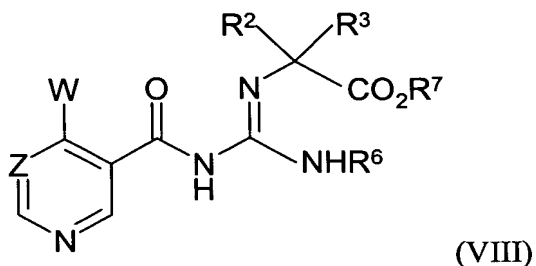


(VI)

wherein W, Z and R^6 are as defined in claim 1, with a compound of formula (VII):



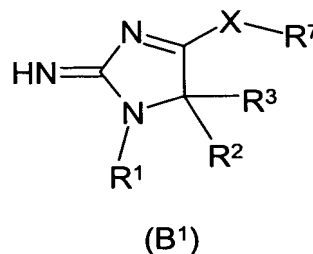
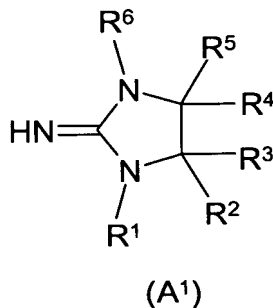
wherein R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, and R^7 is a leaving group, in the presence of a coupling agent to give an intermediate compound of formula (VIII):



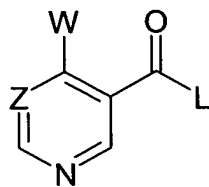
wherein the various symbols are as defined above, followed by cyclisation to give a compound of formula (I) where =Q is a formula (A), R^1 is a hydrogen atom, R^2 and R^3 are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl, thiocarbonyl or imino group, R^4 and R^5 together with the attached carbon atom form a carbonyl group, W, Z and R^6 are as defined in claim 1 and m is zero;

or

d) ~~where =Q is a formula (A) or (B), m is zero and the other symbols are as defined in claim 1, acylating the corresponding compound of formula (A¹) or (B¹):~~



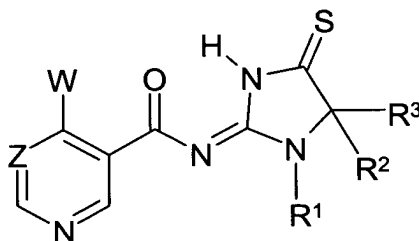
wherein the various symbols are as defined in claim 1, with a compound of formula (IX):



(IX)

wherein W and Z are as defined in claim 1 and L is a leaving group to give a compound of formula (I) where =Q is a formula (A) or (B), m is zero and the other symbols are as defined in claim 1; or

e) ~~where =Q is a formula (B), W, Z, R¹ and R⁷ are as defined in claim 1, X is S, m is zero, and R² and R³ are as defined in claim 1 excluding where together with the attached carbon atom they form a carbonyl or thiocarbonyl group, or an imino group which is unsubstituted or substituted by (C₁-C₆)alkyl, CO(C₁-C₆)alkyl or R^{11a}, reacting a compound of formula (I) which is of formula (X):~~



(X)

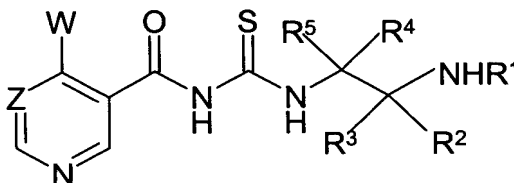
wherein W, Z, ~~R¹, R² and R³~~ R¹, R² and R³ are as defined in claim 1, with a compound of formula (XI):



wherein R⁷ is as defined in claim 1 and L is a leaving group to give a compound of formula (I) where =Q is a formula (B), W, Z, R¹ and R⁷ are as defined in claim 1, X is S, m is zero, and R² and R³ are as defined in claim 1 excluding where together with the

attached carbon atom they form a carbonyl or thiocarbonyl group, or an imino group which is unsubstituted or substituted by (C₁-C₆)alkyl, CO(C₁-C₆)alkyl or R^{11a}; or

f) ~~where =Q is a formula (A), W, Z, R¹, R², R³, R⁴ and R⁵ are as defined in claim 1, R⁶ is hydrogen and m is zero, cyclising a compound of formula (XII):~~



(XII)

wherein W, Z, R¹, R², R³, R⁴ and R⁵ are as defined in claim 1, in the presence of a base to give a compound of formula (I) where =Q is a formula (A), W, Z, R¹, R², R³, R⁴ and R⁵ are as defined in claim 1, R⁶ is hydrogen and m is zero; or

g) ~~where =Q is a formula (A), W, Z, R¹, R² and R³ are as defined in claim 1, R⁴ and R⁵ together with the attached carbon atom form a carbonyl group, R⁶ is hydrogen, and m is zero, oxidising and hydrolysing a compound of formula (I) wherein Q is a group of formula (B), X is S, and W, Z, R¹, R², R³ and R⁷ are as defined in claim 1, and m is zero to give a compound of formula (I) where =Q is a formula (A), W, Z, R¹, R² and R³ are as defined in claim 1, R⁴ and R⁵ together with the attached carbon atom form a carbonyl group, R⁶ is hydrogen, and m is zero; or~~

h) ~~where =Q is a formula (B), W, Z, R², R³ and R⁷ are as defined in claim 1, R¹ is CO(C₁-C₆)alkyl which is unsubstituted or substituted by one or more R⁸ groups, or is COR^{11a} or CO heterocyclyl, and m is zero, acylating the corresponding compound of formula (I) wherein R¹ is hydrogen, using a compound of formula (XIII):~~



(XIII)

wherein L is a leaving group to give a compound of formula (I) where =Q is a formula (B), W, Z, R², R³ and R⁷ are as defined in claim 1, R¹ is CO(C₁-C₆)alkyl which is unsubstituted or substituted by one or more R⁸ groups, or is COR^{11a} or CO-heterocyclyl, and m is zero; or

i) ~~where Q is a group of formula (A), W, Z, R², R³, R⁴, R⁵ and R⁶ are as defined in claim 1, R¹ is CO(C₁-C₆)alkyl which is unsubstituted or substituted by one or more R⁸ groups, or is COR^{11a} or CO-heterocyclyl, and m is zero, acylating the corresponding compound of formula (I) wherein R¹ is hydrogen, using a compound of formula (XIII) as defined above~~ to give a compound of formula (I) where =Q is a group of formula (A), W, Z, R², R³, R⁴, R⁵ and R⁶ are as defined in claim 1, R¹ is CO(C₁-C₆)alkyl which is unsubstituted or substituted by one or more R⁸ groups, or is COR^{11a} or CO-heterocyclyl, and m is zero; or

j) ~~where Q is as defined in claim 1, and m is 1, oxidising a corresponding compound of formula (I) in which m is 0~~ to give a compound of formula (I) where Q is as defined in claim 1, and m is 1; and

~~if desired~~ optionally, converting a resulting compound of formula (I) into a pesticidally acceptable salt thereof.

9. (Currently amended) A pesticidal composition comprising a compound of formula (I) or a pesticidally acceptable salt thereof as defined in ~~any one of claims 1 to 7~~ claim 1, in association with and a pesticidally acceptable diluent or carrier and/or surface active agent.

10. (Cancelled)

11. (New) The compound of claim 6, wherein R¹¹ is phenyl substituted unsubstituted or substituted by one or more radicals selected from the group consisting of (C₁-C₄)alkyl, halogen, (C₁-C₄)alkoxy, NO₂ and amino.